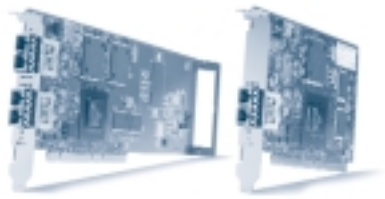
AT-2970 Series, Gigabit Ethernet PCI Server Adapter Cards

AT-2970T, 1000Mbps Gigabit Ethernet PCI server adapter card with one RJ-45 copper connector
AT-2970T/2, 1000Mbps Gigabit Ethernet PCI server adapter card with two RJ-45 copper connectors
AT-2970SX/SC, 1000Mbps Gigabit Ethernet PCI server adapter card with one SC fiber connector
AT-2970SX/2SC, 1000Mbps Gigabit Ethernet PCI server adapter card with two SC fiber connectors



KEY FEATURES

64 bit PCI bus

PCI 2.2 compatible

Fully IEEE 802.3z compliant

Half/Full-Duplex operation

All popular network operating systems supported

Plug & Play auto-configuration

Centralized/Remote booting

HIGH PERFORMANCE & RELIABILITY

The AT-2970 series offers a unique combination of gigabit-level performance with software-based fault-tolerance for servers requiring both 1000Mbps throughput and fail-safe network connectivity. By transferring CPU load from the computer to the adapter card, host resources are freed for more productive system tasks. The dual link AT-2970SX/2SC and AT-2970T/2 satisfy the need for true redundancy and fault-tolerance in a Gigabit Ethernet environment by providing an additional Gigabit backup to the network.

OPTIMUM FLEXIBILITY

The AT-2970 series is designed for the 64bit/66MHz bus system, which combines the largest data path with the fastest possible data transfer for the ultimate performance in a server adapter card. Additionally, the AT-2970 series is fully compatible with 32bit and 33MHz buses. The card also supports full multi-master capability, which allows multiple bus masters to operate on the same bus, freeing the server to run applications to provide other services.

MEDIA INTERFACE

The Allied Telesyn AT-2970 series of server cards supports Gigabit Ethernet standards and is available with single or dual links. This unique capability provides a redundant link in a single PCI slot for crucial server applications that require guaranteed connectivity. The AT-2970 series also allows for network extensions up to 550 meters.

MANAGEMENT

RLMT (Redundant Link Management Technology) manages unattended and automatic failure recovery of broken links. Advanced server NIC features like VLAN support, as well as SNMP and RMON, provide efficient network management and operation.

ABOUT ALLIED TELESYN

Allied Telesyn leads the world in network technologies for the access edge. Since the company's inception in 1987, Allied Telesyn has been developing IP-based network products for use in video, voice and data networks at the metro edge, in education, government agencies and across the enterprise. Allied Telesyn's access, aggregation and core transport technologies range from simple Ethernet adapters, hubs and media converters to robust multi-layer Gigabit Ethernet switches and routers, wireless systems, DTM and WDM transport solutions for delivering real-time voice, video and data. Allied Telesyn's comprehensive support and professional service programs are suited to meet the growing demands of today's switched broadband infrastructures.

SERVICE & SUPPORT

Allied Telesyn provides value-added support services for its customers under its Net.Cover℠ programs. For more information on Net.Cover℠ support programs available in your area, contact your Allied Telesyn sales representative or visit our website.

www.alliedtelesyn.com

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STATUS INDICATORS

Data	Indicates that packets are being received from the network
Link Status	Indicates that a valid receive link exists
Active port	Indicates which port is active (dual link cards only)

PC BUS INTERFACE

Bus Interface	PCI v2.2 compliant
Bus Width	64 bit
Data Transfer Mode	PCI v2.2 Bus mastering
Network Management	LMT
Power Management	APM

GIGABIT ETHERNET INTERFACE

AT-2970SX/SC & AT-2970SX/2SC:
62.5/125 micro multi-mode fiber with SC connectors

HARDWARE INTERRUPTS

Dynamic interrupt moderation via PacedPacketBatch technology
Hardware based TCP, UDP and IP checksum calculation

BASE I/O MEMORY ADDRESS

120 I/O performance enhancement

DRIVER SUPPORT

Novell NetWare 4.1x (LAN driver)
Novell NetWare 5.x (LAN driver)
Windows NT 4.0 (x86 and Alpha)
Windows 2000
Windows 98
SUN Solaris 2.5.1, 2.6, 7 (SPARC 32 bit edition)
SUN Solaris 7 (SPARC 64 bit edition)
Linux 2.0.x
Free BSD (x86 and Alpha; 3rd party)

BUS INTERFACE

PCI bus 64 bit/66MHz or 32 bit/33MHz
Signalling voltage 3.3v and 5v compatible
PCI Hot Plug (OS-dependent)

NOTES

RLMT (Redundant Link Management Technology)
Parity monitoring on all data paths
Sensors for temperature and voltage monitoring
TCP, UDP and IP checksum

POWER CHARACTERISTICS

1000SX	max.14W
1000SX dual link	max.18W
1000T	max.14W

ENVIRONMENTAL SPECIFICATIONS

Operating Temp.	10°C to 50°C
Operating Humidity	30% to 80%

PHYSICAL CHARACTERISTICS

Dimensions:

AT-2970SX/SC & AT-2970T	126mm x 186mm, 320g
AT-2970SX/2SC & AT-2970T/2	127mm x 352mm, 340g

Weight:

AT-2970SX/SC & AT-2970T	320g
AT-2970SX/2SC & AT-2970T/2	340g

STANDARDS COMPLIANCE

AT-2970SX/SC & AT-2970SX/2SC:
IEEE 802.3z 1000SX

ELECTRICAL/MECHANICAL APPROVALS

EMC:

Emissions	FCC Part 15B, Class B; EN 55022 Class B; CISPR 22 Class B; VCCI Class 2
Immunity	EN 50082-1

CE:
Meets the directives for low voltage and EMC

Safety:
UL, CSA, CE, CB

ORDERING INFORMATION

AT-2970T
Gigabit PCI server adapter card with one copper (RJ-45) connector

AT-2970T/2
Gigabit PCI server adapter card with two copper (RJ-45) connectors

AT-2970SX/SC
Gigabit PCI server adapter card with one fiber (SC) connector

AT-2970SX/2SC
Gigabit PCI server adapter card with two fiber (SC) connectors

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